



REVA
Group of Educational
Institutions

Workshops/Conferences Organized

Workshop on Electrical Engineering Faculty Conclave 2013: Academia- Industry Interaction

Objectives of the workshop: Academia-Industry interaction, is being organized by IEEE PES Bangalore chapter in association with REVA Institute of Technology & Management, Bangalore. The program aims at understanding importance and different models of Academia-Industry interactions, steps for better relations and means to overcome some of the barriers. The conclave includes talks by prominent academicians and industry personnel, a panel discussion on the theme and ample opportunity for networking among academia and industry professionals.

Faculty Coordinators : Mr. Mahesh G.S., Dept. of EEE, RITM, Bangalore
Resource Person : IEEE PES Bangalore chapter in association with REVA Institute
of
Technology & Management, Bangalore.
Date : 25th March, 2013.

Seminars Organized

Technical Talk on Challenges in Smart Grid Implementation

Objectives of the workshop: The talk gives an over view of challenges in implementation of smart grid concept and throws light on the current topics of interest for research in power system.

Faculty Coordinators : Dr.B.P.Divakar, Dept. of EEE, RITM, Bangalore
Resource Person : Dr.S.N. Singh, PhD, FIETE, FIET(UK), SMIEE, FIE,
Professor, Electrical Engineering Department. IIT Kanpur
Date : March 26, 2013
Area of specialization : Power systems

Technical Talk on Power Quality and Power Supplies

Objectives of the workshop: Conventional methods such as series and shunt capacitors and reactors are used to control the reactive power and to maintain the voltage to the required level. The conventional methods provide the control but it becomes non reliable sometimes to use mechanical devices for switching purpose. Hence, now-a-days power electronic devices are used for switching purpose since they are fast acting and controllable. In this presentation an overview of such devices i.e FACTs Controllers will be given which improve power quality and reliability of power system.

Faculty Coordinators : Mrs. Monika Sharma, Dept. of EEE, RITM, Bangalore
Resource Person : Dr. P.N Tekwani, Head, Electrical Engineering Department
(EE, IC and ECE), NIRMA University, Ahmedabad
Date : 19th March 2013

Technical Talk on Plug-in Electric Vehicles: Vehicle-to-Grid Transactions

Objectives of the workshop: The technical talk focuses on the power quality problems facing the power system due to power electronics devices and the standards governing the power quality.

Faculty Coordinators : Dr.B.P.Divakar, Dept. of EEE, RITM, Bangalore
Resource Person : Dr.Ganesh Kumar Venayagamoorthy, PhD, FIET, FSAIEE
SMIEE, Duke Energy Distinguished Professor of Electrical and
Computer Engineering at Clemson University, Clemson, USA
Date : 19th Dec 2012
Area of specialization : Power Electronics

Technical Talk on Simulation study of full converter with harmonic analysis and filter

Objectives of the workshop: In this seminar, ORCAD simulation of a thyristor full-bridge converter with resistive and inductive load will be discussed. Several key issues concerning the turn-off process especially with inductive loads and the equivalent circuits which the students fail to comprehend will be highlighted. Harmonic analysis which provides the signature details of output voltage and input current will be carried out and then the design practice to design a simple filter to minimize the dominant harmonic will be shown. The effectiveness of the filter in minimizing the harmonics will be verified by simulating the circuit with filter components.

Faculty Coordinators : Dr.B.P.Divakar, Dept. of EEE, RITM, Bangalore
Resource Person : K.Narayana Swamy, Senior Associate Professor, EEE Dept.
Date : 1st September 2012

Technical Talk on FACTs Controllers – An Overview

Objectives of the workshop: Conventional methods such as series and shunt capacitors and reactors are used to control the reactive power and to maintain the voltage to the required level. The conventional methods provide the control but it becomes non reliable sometimes to use mechanical devices for switching purpose. Hence, now-a-days power electronic devices are used for switching purpose since they are fast acting and controllable. In this presentation an overview of such devices i.e FACTs Controllers will be given which improve power quality and reliability of power system.

Faculty Coordinators : Dr.B.P.Divakar, Dept. of EEE, RITM, Bangalore
Resource Person : Mrs. Monika Sharma, Assistant Professor, EEE Dept.
Date : 25th August 2012

Technical Talk on Modeling and Simulation of DC to DC Converter Using MATLAB/SIMLINK/PSIM

Objectives of the workshop: Designing of any closed loop system involves mathematical modeling. In this talk, the well accepted State Space averaging based mathematical modeling of DC-DC converter will be covered. The implementation of the model using Matlab, Simulink and PSIM will also be discussed.

Faculty Coordinators : Dr.B.P.Divakar, Dept. of EEE, RITM, Bangalore
Resource Person : Mr. Vishwanath Asst. Professor, EEE Dept.
Date : 28th July 2012

FDP Workshop on Potential Research Avenues and Emerging Technologies in the Field of Electrical Engineering

Objectives of the workshop: Electrical Engineering field has opened new opportunities for young engineers to explore in fields such as power systems, power electronics and high voltage engineering. The rapid development in these areas coupled with the attention being given to the power sector by policy makers has created abundant

opportunities for qualified trained engineers. This faculty development program is therefore aimed at exposing the engineering faculty to these developments to make them aware of new research opportunities to upgrade themselves to face new challenges. Eminent researchers from IISC, CPRI, BHEL and KPTCL will deliver lectures related to the state of the art technologies in the field of HV Engineering, HVDC transmission, Power Electronics and Power Systems. The workshop is a platform to bring together experts of various domains in the field of electrical engineering with the teaching fraternity for a productive exchange of ideas.

Venue: RITM, Bangalore, India

Coordinator(s): Dr.B.P.Divakar, Sr. Prof., Dept. of EEE, RITM, Bangalore and K.Narayana swamy, Sr.Assoc. Prof., Dept. of EEE, RITM, Bangalore

Date: Mar 12-16, 2012

Seminar organized

Name of the workshop : **Technical Talk on Recent Trends in Application of ICT (Information and Communication Technology) in Power Engineering**

Resource Person : Dr. R.Nagaraja,MD,PRDC PVT.LTD.,Bangalore India

Name of the institute : RITM, Bangalore, India

Date/month/year : 10th Sept 2011

Name of the Dept. organized the workshop : Electrical and Electronics Engineering

Name of the workshop : **OrCAD-PSPICE**

Resource Person : Mr.Sanjay, Saividya CE,Bangalore India

Name of the institute : RITM, Bangalore, India

Date/month/year : 22nd Dec 2011

Name of the Dept. organized the workshop : Electrical and Electronics Engineering